

Unit 2 Atomic Structure

Lew Dot Diagrams

Lewis Dot Diagrams: Use “dots” around the symbol to represent outer shell electrons. (____ maximum in outer shell)

Note: Outer shell electrons are called _____

Rules:

1. Write the electron configuration (long or short way)
2. Write the orbital notation
3. Select all of the electrons from the outermost shell (____ and ____)
4. Each side of the symbol represents an orbital
5. Use “dots” on the sides of the symbol to represent the electrons in the orbitals of the outer shell.

Example: $\text{Mg} = 1s^2 \ 2s^2 \ 2p^6 \ 3s^2$ shorthand: $[\text{Ne}] \ 3s^2$

Mg

O = 1s² 2s² 2p⁴

shorthand: [He] 2s² 2p⁴



O

Practice:

Al

Se

Cl

Si

S

K